Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claim 1 (currently amended): A method of amplifying RNA sequences comprising:

a) reverse transcribing of RNA to form cDNA;

b) self-ligating said cDNA to form concatemers or circular cDNA products; and

c) amplifying the ligated cDNA products by rolling circle amplification using

random-sequence primers and DNA polymerase.

Claim 2 (original): The method of claim 1, wherein the DNA polymerase has strand

displacement activity.

Claim 3 (original): The method of claim 1, wherein the DNA polymerase is selected from

the group consisting of Thermoanaerobacter thermohydrosulfuricus DNA polymerase,

Thermococcus litoralis DNA polymerase I, E. coli DNA polymerase I, Taq DNA

polymerase I, Tth DNA polymerase I, Bacillus stearothermophilus (Bst) DNA

polymerase I, E. coli DNA polymerase III, bacteriophage T5 DNA polymerase,

bacteriophage M2 DNA polymerase, bacteriophage T4 DNA polymerase, bacteriophage

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T7 DNA polymerase, bacteriophage phi29 DNA polymerase, bacteriophage PRD1 DNA

polymerase, bacteriophage phi15 DNA polymerase, bacteriophage phi21 DNA

polymerase, bacteriophage PZE DNA polymerase, bacteriophage PZA DNA polymerase,

bacteriophage Nf DNA polymerase, bacteriophage M2Y DNA polymerase,

bacteriophage B103 DNA polymerase, bacteriophage SF5 DNA polymerase,

bacteriophage GA-1 DNA polymerase, bacteriophage Cp-5 DNA polymerase,

bacteriophage Cp-7 DNA polymerase, bacteriophage PR4 DNA polymerase,

bacteriophage PR5 DNA polymerase, bacteriophage PR722 DNA polymerase and

bacteriophage L17 DNA polymerase.

Claim 4 (original): The method of claim 1, wherein the cDNA is converted into double-

stranded cDNA prior to the self-ligating step.

Claim 5 (original): The method of claim 1, wherein the random-sequence primers are

nuclease resistant.

Claim 6 (currently amended): A method of amplifying RNA sequences comprising:

a) reverse transcribing of RNA to form cDNA using a primer that comprises the

sequence of an RNA polymerase promoter;

b) self-ligating the said cDNA to form concatemers or circular cDNA products;

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- amplifying the resulting ligated cDNA by rolling circle amplification using random-sequence primers and DNA polymerase; and
- transcribing the resulting amplified, promoter-containing DNA using RNA polymerase.

Claim 7 (original): The method of claim 6, wherein the DNA polymerase has strand displacement activity.

Claim 8 (original): The method of claim 6, wherein the RNA polymerase is T7 RNA polymerase, T3 RNA polymerase or SP6 RNA polymerase.

Claim 9 (original): The method of claim 6, wherein the DNA polymerase is selected from the group consisting of *Thermoanaerobacter thermohydrosulfuricus* DNA polymerase, *Thermococcus litoralis* DNA polymerase I, *E. coli* DNA polymerase I, *Taq* DNA polymerase I, *Tih* DNA polymerase I, *Bacillus stearothermophilus* (*Bst*) DNA polymerase I, *E. coli* DNA polymerase, bacteriophage T5 DNA polymerase, bacteriophage M2 DNA polymerase, bacteriophage T4 DNA polymerase, bacteriophage T7 DNA polymerase, bacteriophage phi29 DNA polymerase, bacteriophage PRD1 DNA polymerase, bacteriophage phi15 DNA polymerase, bacteriophage PZE DNA polymerase, bacteriophage PZA DNA polymerase, bacteriophage PZE DNA polymerase, bacteriophage PZA DNA polymerase, bacteriophage PZB DNA polymerase, bacteriophage PZA DNA polymerase, bacteriophage NS DNA polymerase, bacteriophage M2Y DNA polymerase,

bacteriophage B103 DNA polymerase, bacteriophage SF5 DNA polymerasc,

bacteriophage GA-1 DNA polymerase, bacteriophage Cp-5 DNA polymerase,

bacteriophage Cp-7 DNA polymerase, bacteriophage PR4 DNA polymerase,

bacteriophage PR5 DNA polymerase, bacteriophage PR722 DNA polymerase and

bacteriophage L17 DNA polymerase.

Claim 10 (original): The method of claim 6, wherein the cDNA is converted into double-

stranded cDNA prior to the self-ligating step.

Claim 11 (original): The method of claim 6, wherein the random-sequence primers are

nuclease resistant.

Claim 12 (original): The method of claim 6, wherein said primer further comprises a

restriction enzyme recognition sequence and wherein the amplified, promoter containing

DNA is treated with a restriction enzyme prior to transcribing.

Claim 13 (original): The method of claim 6, wherein said primer comprises an RNA

polymerase termination sequence.

Claim 14 (currently amended): A method of amplifying RNA sequences comprising:

a) reverse transcribing RNA to form cDNA;

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b) self-ligating the cDNA to form concatemers or circular cDNA products; and

c) amplifying the resulting self-ligated cDNA by rolling circle amplification using

one or more specific sequence primers-by isothermal specific sequence primer

based DNA amplification.

Claim 15 (original): The method of claim 14, wherein 1 to 50 said specific sequence

primers are used.

Claim 16 (original): The method of claim 14, wherein said one or more specific sequence

primers are each independently between 7 and 50 nucleotides long.

Claim 17 (original): The method of claim 16, wherein said one or more specific sequence

primers are each independently between 12 and 25 nucleotides long.

Claim 18 (currently amended): The method of claim 1 claim 14, wherein the DNA

polymerase has strand displacement activity.

Claim 19 (currently amended): The method of claim 1 claim 14, wherein the DNA

polymerase is selected from the group consisting of Thermoanaerobacter

thermohydrosulfuricus DNA polymerase, Thermococcus litoralis DNA polymerase I, E.

coli DNA polymerase I, Tag DNA polymerase I, Tth DNA polymerase I, Bacillus

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stearothermophilus (Bst) DNA polymerase I, E, coli DNA polymerase III, bacteriophage

T5 DNA polymerase, bacteriophage M2 DNA polymerase, bacteriophage T4 DNA

polymerase, bacteriophage T7 DNA polymerase, bacteriophage phi29 DNA polymerase,

bacteriophage PRD1 DNA polymerase, bacteriophage phi15 DNA polymerase,

bacteriophage phi21 DNA polymerase, bacteriophage PZE DNA polymerase,

bacteriophage PZA DNA polymerase, bacteriophage Nf DNA polymerase, bacteriophage

M2Y DNA polymerase, bacteriophage B103 DNA polymerase, bacteriophage SF5 DNA

polymerase, bacteriophage GA-1 DNA polymerase, bacteriophage Cp-5 DNA

polymerase, bacteriophage Cp-7 DNA polymerase, bacteriophage PR4 DNA polymerase,

bacteriophage PR5 DNA polymerase, bacteriophage PR722 DNA polymerase and

bacteriophage L17 DNA polymerase.

Claim 20 (currently amended): The method of claim 1 claim 14, wherein the cDNA is

converted into double-stranded cDNA prior to the self-ligating step.

Claim 21 (original): The method of claim 14, wherein said one or more specific sequence

primers are nuclease resistant.

Claim 22 (original): A method of producing labeled DNA comprising, amplifying DNA

according to the method of claim 1 or 14, wherein said amplifying step further comprises

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including one or more detectably labeled nucleotide analogs or one or more nucleotide

analogs providing a means for direct or indirect attachment of a detection label.

Claims 23-24 (cancelled)

Claim 25 (original): A method of producing labeled RNA comprising, amplifying RNA

according to the method of claim 6, wherein said transcribing step d), further comprises

including one or more detectably labeled nucleotide analogs or one or more nucleotide

analogs providing a means for direct or indirect attachment of a detection label.

Claims 26-27 (cancelled)

Claim 28 (currently amended): A method of identifying an RNA sequence comprising,

amplifying RNA according to the method of any one of claims 1, 6 or 13 14, and

identifying the resulting amplified RNA by a sequence dependent detection method.

Claim 29 (currently amended): An RNA amplification kit comprising reverse

transcriptase, ligase, phi29 DNA polymerase, and RNA polymerase, and nuclease

resistant primers.

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Claim 30 (currently amended): The RNA amplification kit of claim 29, further emprising wherein said nuclease resistant primers are random sequence amplification primers.